

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/518,710  
Source: RET  
Date Processed by STIC: 4-5-06

# ***ENTERED***

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/518, 710

CRF Edit Date: 4/5  
Edited by: ZQ

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

✓ \_\_\_ Other: Corrected Amino Acid numbering,  
for seq ID #3.



PCT

## RAW SEQUENCE LISTING

DATE: 04/05/2006

PATENT APPLICATION: US/10/518,710

TIME: 10:29:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

```

3 <110> APPLICANT: Tomizawa, Kazuhito
4     Matsui, Hideki
6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin
8 <130> FILE REFERENCE: JP-13650
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710
C--> 10 <141> CURRENT FILING DATE: 2004-12-22
10 <160> NUMBER OF SEQ ID NOS: 6
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 16
15 <212> TYPE: PRT
16 <213> ORGANISM: human
18 <400> SEQUENCE: 1
19 Phe Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
20   1             5             10             15
23 <210> SEQ ID NO: 2
24 <211> LENGTH: 17
25 <212> TYPE: PRT
26 <213> ORGANISM: human
28 <400> SEQUENCE: 2
29 Arg Glu Glu Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr
30   1             5             10             15
32 Gly
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 521
37 <212> TYPE: PRT
38 <213> ORGANISM: human
40 <400> SEQUENCE: 3
41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
42   1             5             10             15
44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys
45             20             25             30
47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala
48             35             40             45
50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile
51             50             55             60
53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp
54   65             70             75             80
56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe
57             85             90             95
59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg
60             100            105            110
62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu
63             115            120            125

```

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```

65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu
66      130                      135                      140
68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe
69 145                      150                      155                      160
71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp
72                      165                      170                      175
74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn
75                      180                      185                      190
77 Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr
78                      195                      200                      205
80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr
81      210                      215                      220
83 Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly
84 225                      230                      235                      240
86 Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys
87                      245                      250                      255
89 Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn
90                      260                      265                      270
92 Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr
93                      275                      280                      285
95 Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr
96      290                      295                      300
98 Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala
99 305                      310                      315                      320
101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys
102                      325                      330                      335
104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp
105                      340                      345                      350
107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val
108                      355                      360                      365
110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe
111      370                      375                      380
113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile
114 385                      390                      395                      400
116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu
117                      405                      410                      415
119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu
120                      420                      425                      430
122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr
123                      435                      440                      445
125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln
126      450                      455                      460
128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn
129 465                      470                      475                      480
131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu
132                      485                      490                      495
134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser
135                      500                      505                      510
137 Asn Gly Ser Asn Ser Ser Asn Ile Gln

```

## RAW SEQUENCE LISTING

DATE: 04/05/2006

PATENT APPLICATION: US/10/518,710

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Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

```

138          515          520
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 11
143 <212> TYPE: PRT
144 <213> ORGANISM: HIV virus
146 <400> SEQUENCE: 4
147 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
148   1           5           10
151 <210> SEQ ID NO: 5
152 <211> LENGTH: 26
153 <212> TYPE: PRT
154 <213> ORGANISM: human
156 <400> SEQUENCE: 5
157 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Phe Asp Gly Ala Thr Ala
158   1           5           10           15
160 Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
161           20           25
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 27
166 <212> TYPE: PRT
167 <213> ORGANISM: human
169 <400> SEQUENCE: 6
170 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Glu Glu Ser Glu Ser
171   1           5           10           15
173 Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly
174           20           25

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/518,710

DATE: 04/05/2006

TIME: 10:29:40

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing  
(for reference only)**

**BEST AVAILABLE COPY**



PCT

## RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/518,710

TIME: 15:28:28

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\03312006\J518710.raw

3 <110> APPLICANT: Tomizawa, Kazuhito  
 4 Matsui, Hideki  
 6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin  
 8 <130> FILE REFERENCE: JP-13650  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710  
 C--> 10 <141> CURRENT FILING DATE: 2004-12-22  
 10 <160> NUMBER OF SEQ ID NOS: 6

## ERRORED SEQUENCES

Does Not Comply  
 Corrected Diskette Needed  
 (PS.2) ↪

35 <210> SEQ ID NO: 3  
 36 <211> LENGTH: 521  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: human  
 40 <400> SEQUENCE: 3  
 41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg  
 42 1 5 10 15  
 44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys  
 45 20 25 30  
 47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala  
 48 35 40 45  
 50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile  
 51 50 55 60  
 53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp  
 54 65 70 75 80  
 56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe  
 57 85 90 95  
 59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg  
 60 100 105 110  
 62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu  
 63 115 120 125  
 65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu  
 66 130 135 140  
 68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe  
 69 145 150 155 160  
 71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp  
 72 165 170 175  
 74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn  
 75 180 185 190  
 77 Gln Gln Phe Leu Cys Val His Gly Leu Ser Pro Glu Ile Asn Thr  
 78 195 200 205  
 80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr



## RAW SEQUENCE LISTING

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DATE: 03/31/2006

TIME: 15:28:28

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\03312006\J518710.raw

```

81      210      215      220
83 Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly
84 225      230      235      240
86 Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys
87      245      250      255
89 Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn
90      260      265      270
92 Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr
93      275      280      285
95 Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr
96      290      295      300
98 Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala
99 305      310      315      320
101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys
102      325      330      335
104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp
105      340      345      350
107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val
108      355      360      365
110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe
111      370      375      380
113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile
114 385      390      395      400
116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu
117      405      410      415
119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu
120      420      425      430
122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr
123      435      440      445
125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln
126      450      455      460
128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn
129 465      470      475      480
131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu
132      485      490      495
134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser
135      500      505      510
137 Asn Gly Ser Asn Ser Ser Asn Ile Gln
E--> 138 515 520

```

Handwritten annotations: "SIS" and "S20" are written over the sequence lines near positions 515 and 520 respectively.

VERIFICATION SUMMARY

DATE: 03/31/2006

PATENT APPLICATION: US/10/518,710

TIME: 15:28:29

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\03312006\J518710.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3